Comprehensive Long-Term Environmental Action Navy (CLEAN II)

Contract No. N62474-94-D-7609

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FINAL

BASEWIDE POLYCHLORINATED BIPHENYL CONFIRMATION SAMPLING SUMMARY REPORT

MARE ISLAND, CALIFORNIA

FEBRUARY 13, 1998

VOLUME II
CONFIRMATION SAMPLING
SUMMARIES BY PARCEL

Department of the Navy • Engineering Field Activity West

PARCEL 01-C

Parcel 01-C is located on the west side of Investigation Area A1 (see Figure 4-1). From 1922 until 1941, the Marine Corps used the parcel as a rifle range. For identification purposes, PCB assessment locations in Parcel 01-C were associated with Building 627. Building 627 was constructed in 1943 and was originally used to store ordnance. For some time until 1967, the building was used as a radium dial repair facility, and in 1975, the building became a torpedo storage area. In 1980 the building was converted to the Preinstallation and Check Out for NAVELEX sonar towed-array systems, as well as repairs for the systems. The interim PCB assessment report for Parcel 01-C prepared by SSPORTS (see Appendix A) indicated that there is no historical record of PCB-containing spills, and there were no hazardous waste accumulation areas within the parcel.

Interim Assessment Results

SSPORTS personnel collected 84 PCB screening samples within Parcel 01-C (see Appendix A). The interim report indicated that 34 of the 84 screening samples contained PCBs at concentrations ranging from 0.3 to 170,000 ppm; PCBs were not detected in the other 50 samples. Twenty of the samples in which PCBs were detected were collected from the first floor of Building 627 (Assessment Location 07). Seven of the samples in which PCBs were detected were collected from the second floor mezzanine of Building 627 (Assessment Location 08). The seven samples with the highest concentration of PCBs were collected from the third floor mezzanine of Building 627 (Assessment Location 09). Based on the results of SSPORTS' PCB assessment work in Parcel 01-C, the interim report recommended that remediation and further characterization be conducted in portions of the second and third floor mezzanines of Building 627 before releasing the building to the public for lease. The remaining areas in the parcel were considered suitable for leasing.

PCB Assessment Location Descriptions

After reviewing the interim PCB assessment report and conducting an initial survey of the parcel, TtEMI identified nine separate PCB assessment locations in Parcel 01-C, both inside and outside Building 627. In July 1997, TtEMI collected a total of 22 PCB confirmation samples from the nine PCB assessment locations in the parcel, in accordance with the Basewide Confirmation Sampling

Plan for PCB Abatement Locations (PRC 1997). The sample locations associated with each building are shown on the Parcel 01C figure (provided after this text and associated table) and discussed below.

Building 627

At Building 627 there are nine PCB assessment locations: three inside the building and six outside the building. The assessment locations and sample locations are described below.

PCB Assessment Location 01: An oil-stained area of pavement outside Building 627. The area is about 40 feet west of Building 627. At the time of confirmation sampling, the area was clear of equipment. One asphalt confirmation sample (PC0063) was collected from the center of the stained area.

PCB Assessment Location 02: A concrete berm west of Building 627. The 6-inch-high berm encloses three separate rectangular areas, each about 25 feet wide and 40 feet long. At the time of confirmation sampling, the area was clear of equipment. Two concrete confirmation samples (PC0049 and PC0050) were collected from stained areas on top of the central berm that separates two of the rectangular areas.

PCB Assessment Location 03: A concrete pad located west of the northwest corner of Building 627. As described in the interim report (see Appendix A) and confirmed by field observations, the location is the site of a former transformer. At the time of confirmation sampling, moderate rust and oil staining was evident. One concrete confirmation sample (PC0045) was collected from a stained area on the pad.

PCB Assessment Location 04: A transformer pad located outside of and adjacent to the northwest wall of Building 627. Light staining was observed on the concrete pad, which contained two transformers. Two confirmation samples were collected from Assessment Location 04: one concrete confirmation sample (PC0047) was collected from a stained area between the two transformers on the pad, and one asphalt confirmation sample (PC0048) was collected from the pavement at the west edge of the concrete pad.

PCB Assessment Location 05: A transformer pad located outside of and adjacent to the east wall of Building 627. The concrete pad and transformers are enclosed in a structure consisting of 10-foot-high cinder block walls. The structure has no roof and has openings along the base of the concrete pad for drainage. Light staining was observed on the concrete pad during confirmation sampling. Three confirmation samples were collected from Assessment Location 05: one concrete confirmation sample PC0041) was collected from a stained area between the transformers on the pad, one asphalt confirmation sample (PC0042) was collected from the pavement at the gated entrance to the structure, and one soil confirmation sample (PC0064) was collected from soil that had accumulated in one of the drainage openings.

PCB Assessment Location 06: A concrete pad located outside of and adjacent to the east wall of Building 627. As described in the interim report (see Appendix A) and confirmed by field observations, the location is the site of two former transformers. At the time of confirmation sampling, moderate rust and oil staining was evident on the concrete pad, outlining the locations of the former transformers. Two confirmation samples were collected from Assessment Location 06: one concrete confirmation sample (PC0043) was collected from a stained area where one transformer apparently had been located, and one concrete confirmation sample (PC0044) was collected from a stained area where the second transformer apparently had been located.

PCB Assessment Location 07: The first floor of Building 627. Building 627 is a three-story structure with a concrete floor and consists of two separate sections divided by walls. At the time of confirmation sampling, a film production company occupied the first floor of the building. All equipment and machinery had been previously removed from the building. Five concrete confirmation samples were collected from Assessment Location 07: all five samples (PC0051, PC0053, PC0054, PC0055, and PC0056) were collected from stained areas on the surface of the concrete floor.

PCB Assessment Location 08: The second floor mezzanine of Building 627. The second floor mezzanine is divided into three separate sections and has a solid wood floor. The appearance of the second floor mezzanine suggests that it was used to store for equipment and materials; the types of equipment or materials that were used or stored on the mezzanine could not be determined from available reports. At the time of confirmation sampling activities, the mezzanine was vacant and

cleared of all equipment and machinery. At this location, one wood sample was collected from a stained area within each of the three sections of the mezzanine (PC0057, PC0058, and PC0059).

PCB Assessment Location 09: The third floor mezzanine of Building 627. The third floor mezzanine is divided into two separate sections and has a solid wood floor. At the time of confirmation sampling activities, the mezzanine was vacant and cleared of all equipment and machinery. Three wood confirmation samples were collected from Assessment Location 09: one sample (PC0060) was collected from a stained area within the southern section of the mezzanine, and two samples (PC0061 and PC0062) were collected from stained areas within the northern section of the mezzanine.

Confirmation Sampling Results

Analytical results for the confirmation sampling inside and outside Building 627 are summarized on the Parcel 01-C table for Building 627 provided after this text. In samples from Assessment Locations 02, 03, 04, and 06, PCBs were not detectable. The concentration in the sample from Assessment Location 01 was below 0.067 mg/kg. The highest PCB concentration, estimated at 6,100 mg/kg, was detected in a wood sample from Assessment Location 09, on the third floor mezzanine; other samples from this location had estimated concentrations of 0.07 and 0.4 mg/kg. Estimated PCB concentrations in samples from the first floor and second floor mezzanine, Assessment Locations 07 and 08, ranged from below 0.067 to 1.0 mg/kg. Outside Building 627, samples from Assessment Location 05 had estimated PCB concentrations below 0.067 in concrete and at 8.0 mg/kg in soil.

Recommendations

Because Parcel 01-C is located in a light industrial area, the parcel will be managed considering criteria for human health protection at industrial sites. Based on the flow chart for PCB assessment locations (see Figure 3-1), PCB assessment activities were considered complete at the following locations and are being referred to the BCT for review and concurrence or tracking purposes are as follows:

Building 627

- PCB Assessment Location 01 - asphalt/concrete pavement
- PCB Assessment Location 02 - concrete berm
- PCB Assessment Location 03 - concrete pad
- PCB Assessment Location 04 - transformer pad
- PCB Assessment Location 05 - transformer pad
- PCB Assessment Location 06 - concrete pad
- PCB Assessment Location 07 - first floor
- PCB Assessment Location 08 - second floor

One location in Parcel 01-C requires additional abatement and confirmation sampling:

Building 627

- PCB Assessment Location 09 - third floor

After additional abatement has been completed at this location and subsequent confirmation samples show that PCB concentrations are below the 10 mg/kg screening criteria, an addendum to this report including the additional confirmation sampling results and BCT notification form, will be submitted for insertion.

Summary

Confirmation samples were collected at each of the nine identified PCB assessment locations within Parcel 01-C; confirmation sampling was not affected by access limitations or other sampling problems.

In summary, eight locations were considered complete and are being referred to the BCT for review; one location requires further abatement and confirmation sampling. Parcel 01-C will be considered complete with respect to PCB assessment when the addendum documenting further abatement and confirmation sampling at Building 627, Assessment Location 09, and any other locations designated for further assessment or abatement by the BCT, are attached to this report and approved by the BCT.

PARCEL 01-C

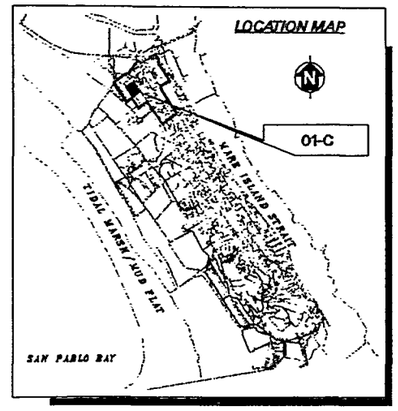
PHASE I PCB CONFIRMATION SAMPLING RESULTS, BUILDING 627
MARE ISLAND

Inside/ Outside	PCB Assessment Location	Location Description	Sample Identification Number	Sample Matrix	PCB Concentration (mg/kg)
Outside	01	A/C pavement	PC0063	Asphalt	0.03 J
Outside	02	Concrete berm	PC0049	Concrete	ND
		Concrete berm	PC0050	Concrete	ND
Outside	03	Concrete pad	PC0045	Concrete	ND
Outside	04	Transformer pad	PC0047	Concrete	ND
		Transformer pad	PC0048	Concrete	ND
Outside	05	Transformer pad	PC0041	Concrete	0.05 J
		Transformer pad	PC0042	Concrete	0.05 J
		Transformer pad	PC0064	Soil	8.0 J
Outside	06	Concrete pad	PC0043	Concrete	ND
		Concrete pad	PC0044	Concrete	ND
Inside	07	First floor warehouse	PC0051	Concrete	0.6
		First floor warehouse	PC0053	Concrete	0.3
		First floor warehouse	PC0054	Concrete	0.2
		First floor warehouse	PC0055	Concrete	0.1 J
		First floor warehouse	PC0056	Concrete	0.2 J
Inside	08	Second floor	PC0057	Wood	0.03 J
		Second floor	PC0058	Wood	0.8 J
		Second floor	PC0059	Wood	1.0 J
Inside	09	Third floor	PC0060	Wood	0.07 J
		Third floor	PC0061	Wood	0.4 J
		Third floor[1]	**PC0062**	**Wood**	**6,100 J**

Notes:

J	Estimated PCB concentration
mg/kg	Milligrams per kilogram
ND	Not detected
PCB	Polychlorinated biphenyl

1 Bold font indicates PCB concentrations in confirmation sample exceeded industrial screening criteria.



629

621

627

751

01-C

PC0047 (04)
ND

PC0048 (04)
ND

PC0041 (05)
0.050 J

PC0064 (05)
8.000 J

PC0042 (05)
0.050 J

PC0053 (07)
0.300

PC0059 (08)
1.000 J

PC0045 (03)
ND

PC0062 (09)
6100.000 J

PC0054 (07)
0.200

PC0049 (02)
ND

PC0061 (09)
0.400 J

PC0050 (02)
ND

PC0056 (07)
0.200 J

PC0058 (08)
0.800 J

PC0043 (06)
ND

PC0044 (06)
ND

PC0051 (07)
0.600

PC0060 (09)
0.070 J

PC0063 (01)
0.030 J

PC0055 (07)
0.100 J

PC0057 (08)
0.030 J

LEGEND

01-C	PARCEL BOUNDARY
627	BUILDING
⊙	PCB CONFIRMATION SAMPLE LOCATION
(01)	PCB ASSESSMENT LOCATION NUMBER
PC0043	PCB SAMPLE IDENTIFICATION NUMBER
0.400	PCB SAMPLE CONCENTRATION (MG/KG)
ND	NOT DETECTED
J	ESTIMATED VALUE

N

50 0 50 100

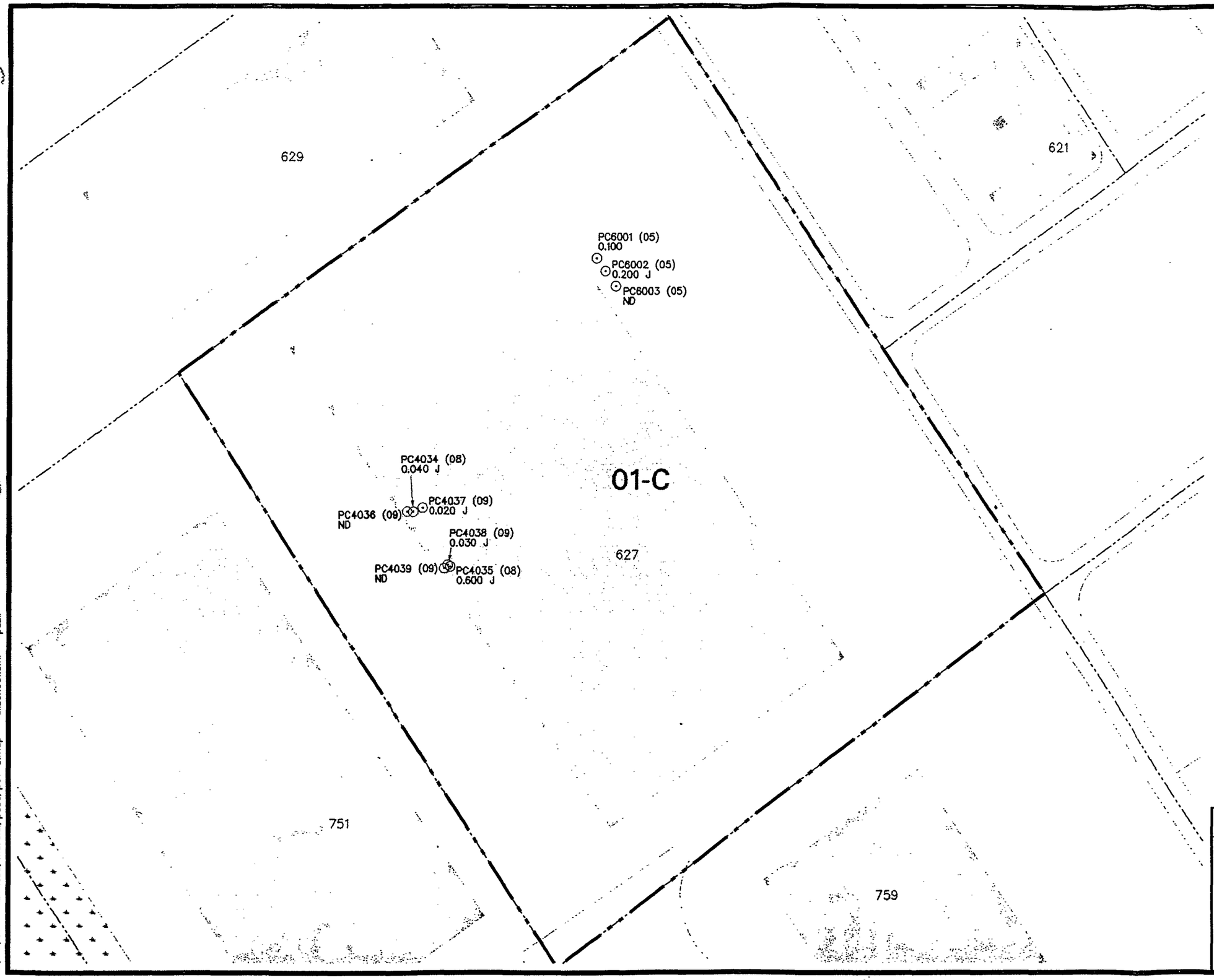
SCALE IN FEET

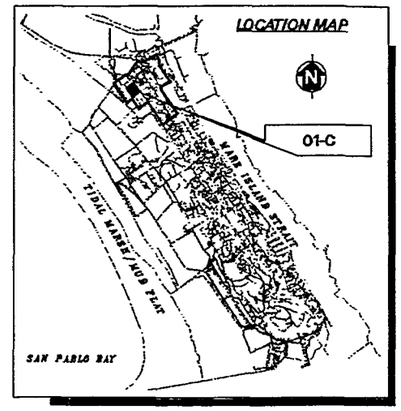
MARE ISLAND, CALIFORNIA

PARCEL 01-C

PHASE I
PCB CONFIRMATION SAMPLE LOCATIONS AND RESULTS

01/26/98 data2/mareisl/pcbs/p01-C.map altzoneo1.aml bellb





LEGEND

01-C	PARCEL BOUNDARY
527	BUILDING
⊙	PCB CONFIRMATION SAMPLE LOCATION
(09)	PCB ASSESSMENT LOCATION NUMBER
PC4037	PCB SAMPLE IDENTIFICATION NUMBER
0.020	PCB SAMPLE CONCENTRATION (MG/KG)
ND	NOT DETECTED
J	ESTIMATED VALUE

N

50 0 50 100

SCALE IN FEET

MARE ISLAND, CALIFORNIA

PARCEL 01-C

PHASE II
PCB CONFIRMATION SAMPLE LOCATIONS AND RESULTS

12/29/98 w:\ota5\mareisl\paba\p01-c.map altzonea1.aml paulr